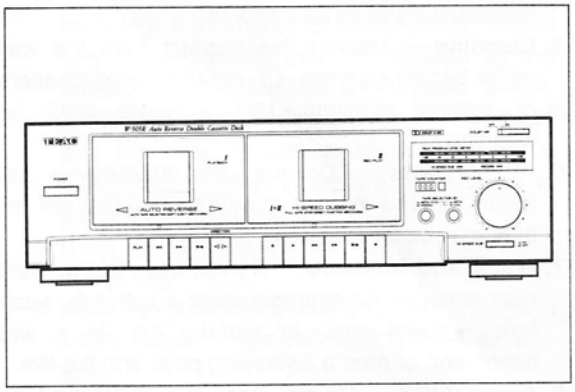
TEAC

3D0002400A

W-505R

Auto Reverse Double Cassette Deck



Thank you for buying a TEAC. Read this manual carefully to get the best performance from this deck.

Nous vous remercions pour l'achat d'un appareil TEAC. Lire ce manuel avec attention pour obtenir les meilleures performances possibles de cet appareil.

OWNER'S MANUAL 2
MANUEL DU PROPRIETAIRE 10

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.
Model number _____
Serial number _____

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

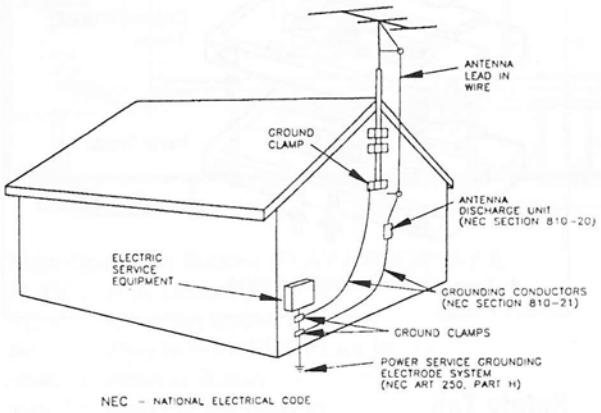
- **Read all of these instructions.**
- **Save these instructions for later use.**
- **Follow all warnings and instructions marked on the audio equipment.**

1. **Read instructions** – All the safety and operating instructions should be read before the product is operated.
2. **Retain instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the product and in the operating instructions should be adhered to.
4. **Follow instructions** – All operating and use instructions should be followed.
5. **Cleaning** – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. **Attachments** – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. **Water and Moisture** – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. **Accessories** – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

10. **Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. **Power Sources** – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. **Grounding or Polarization** – This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. **Outdoor Antenna Grounding** – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

"Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

Example of antenna grounding as per National Electrical Code, ANSI/NFPA 70


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC - NATIONAL ELECTRICAL CODE

15. **Lightning** – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
16. **Power Lines** – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. **Overloading** – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
18. **Object and Liquid Entry** – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
19. **Servicing** – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
20. **Damage Requiring Service** – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a) When the power-supply cord or plug is damaged.
    b) If liquid has been spilled, or objects have fallen into the product.
    c) If the product has been exposed to rain or water.
    d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
    e) If the product has been dropped or damaged in any way.
    f) when the product exhibits a distinct change in performance – this indicates a need for service.
21. **Replacement Parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
22. **Safety Check** – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
23. **Wall or Ceiling Mounting** – The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
24. **Heat** – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

PRECAUTIONS

Environment

Avoid using the deck in the following conditions:

- At high temperatures (near a heater, exposed to direct sunlight, etc.).
- At extremely low temperatures.
- Where there is excessive humidity.
- In a dusty atmosphere.
- Where power line voltage fluctuations are severe (the use of a voltage regulator may be advisable).

Tape Handling:

Do not store tapes in the following places:

- On top of heaters, exposed to direct sunlight or in any other places with high temperatures.
- Near speakers, on TV sets or amplifiers or where they would be exposed to strong magnetic fields.
- Where humidity is high and in dirty, dusty places.
- Avoid dropping or subjecting cassettes to excessive shocks.
- As C-120 tapes are physically weak and could become entangled in the transport mechanism, do not use them.

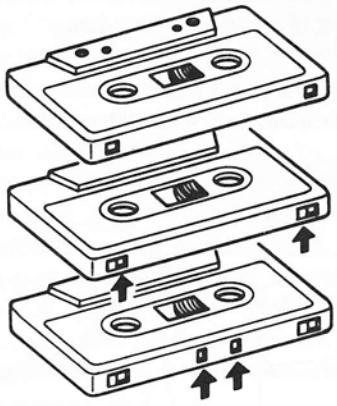
* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

CAUTION:
Recording pre-recorded tapes, records, or other published or broadcast material may infringe copyright laws. Check before recording.

Cassette Tape

Selection: PLAYBACK I

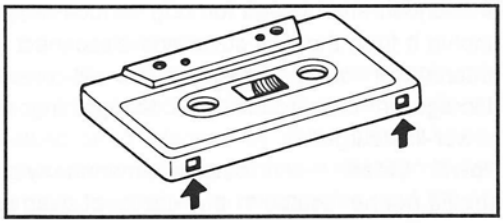
For the automatic tape select function to work properly, metal and chrome (cobalt) tapes must have identification holes.



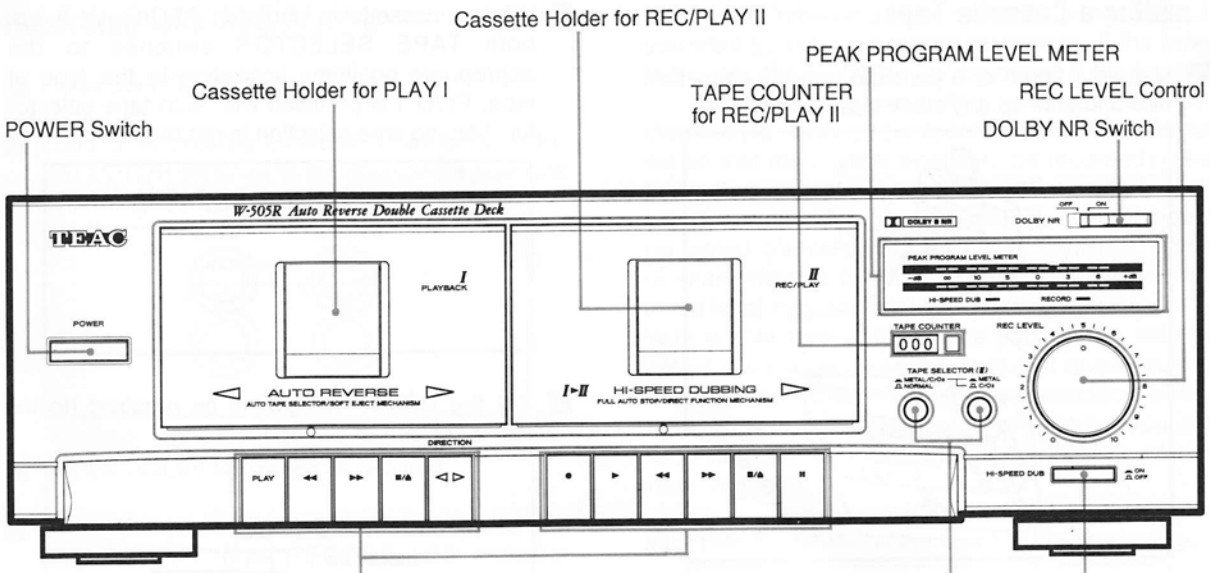
- Tape position identification holes.

Safety Tab

- Check that the safety tabs on the spine of the cassette are in place. If they have been broken off, block the holes with adhesive tape.



NAME OF EACH CONTROL



Tape Operation Buttons (PLAY I, REC/PLAY II)

PLAY : Play Button (PLAY I)
◁▷ : Direction Button (PLAY I)
► : Play Button (REC/PLAY II)
◄◄ : Rewind Button
►► : Fast Forward Button
■/⏏ : Stop/Eject Button
II : Pause Button (REC/PLAY II)
● : Record Button (REC/PLAY II)

TAPE SELECTOR Switches for REC/PLAY II

HI-SPEED DUB Button

The equipment draws nominal nonoperating power from the AC outlet with its POWER switch in the OFF position.

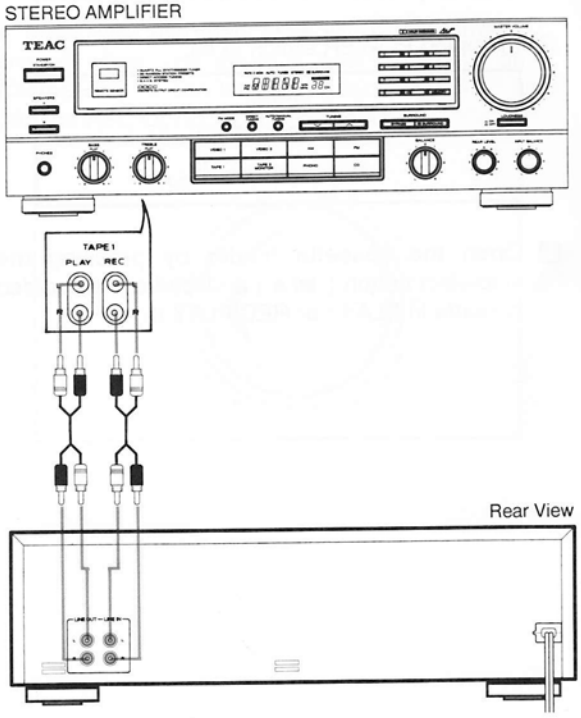
Obs! nätströmställaren skiljer ej hela apparaten fran nätet.

CONNECTIONS

- Turn off power for all equipment before making connections.
- Read instructions of each component you intend to use with the deck.

- LINE OUT Terminals on the tape deck should be connected to the TAPE PLAY or LINE IN jacks on the amplifier/receiver.
- LINE IN Terminals on the tape deck should be connected to the REC OUT jacks on the amplifier/receiver.

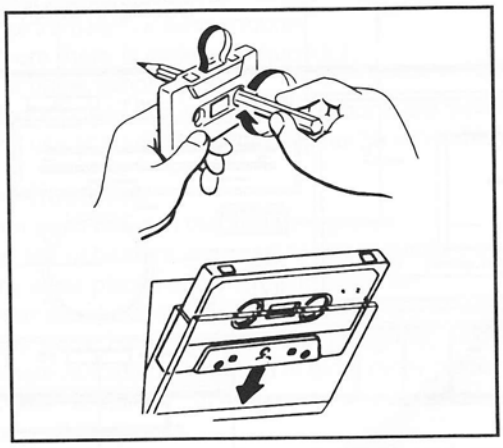
STEREO AMPLIFIER



OPERATIONS

Loading a Cassette Tape

1 Use your finger or a pencil to turn the cassette's hub and take up any slack tape.



Note: Avoid touching the tape. Fingerprints attract dust and dirt.

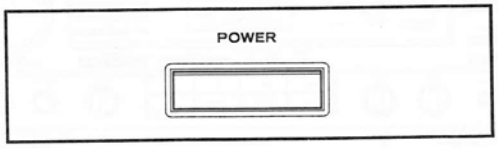
2 Press the appropriate stop/eject button (■/≜) to open the cassette compartment door.

3 Load the cassette tape with its open edge facing down.

4 Gently close the compartment door.

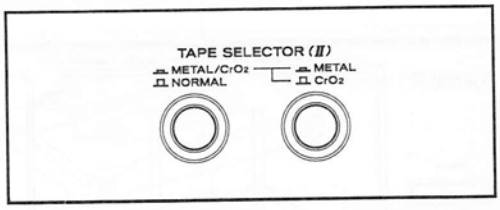
Playback (PLAY I or REC/PLAY II deck)

1 Press the POWER switch to on.

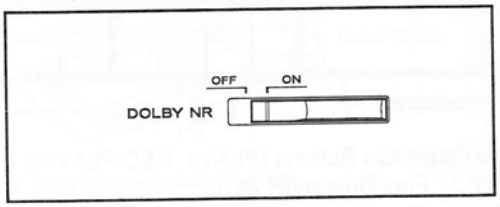


2 Open the cassette holder by pressing the stop/eject button (■/≜) and load a prerecorded cassette in PLAY I or REC/PLAY II.

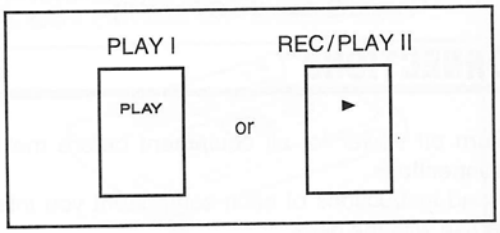
3 When a cassette is loaded in REC/PLAY II, set both TAPE SELECTOR switches to the appropriate positions according to the type of tape. PLAY I is provided with auto tape selector function, so tape selection is not required.



4 Set the DOLBY NR switch as required (to the same position as during recording).



5 Press the PLAY or ► button to start playback. PLAY I offers Auto Reverse function which will play back both sides of the tape automatically. To reverse playback to the other side, press the direction button (◁▷).



6 Adjust the amplifier until the listening level i comfortable.

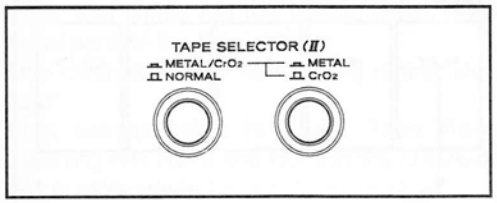
- To stop playback, press the STOP button (■/≜)

REC/PLAY II Priority
When both PLAY I and REC/PLAY II are played back simultaneously, REC/PLAY II has priority. Therefore, if the play button of REC/PLAY II is pressed while a tape is being played back in PLAY I, playback will switch over to REC/PLAY II.

Recording with REC/PLAY II

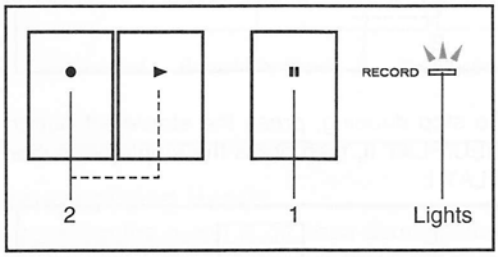
1 Press the POWER switch to on.

2 Load a recordable cassette. Set both TAPE SELECTOR switches to the appropriate positions according to the type of tape loaded.

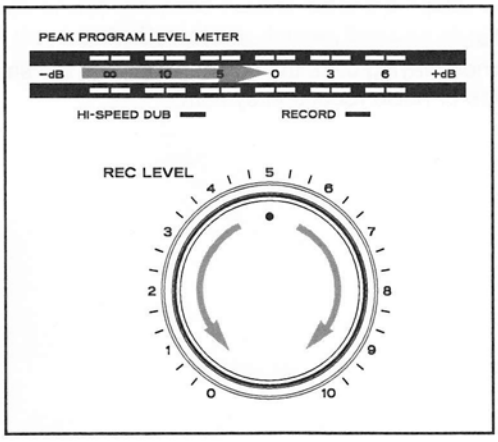


3 Set the DOLBY NR switch as required.

4 Press the pause button and then press the record button. (The RECORD LED indicator comes on.) This enables you to adjust the recording level without actually recording. (Operate in the order shown.)

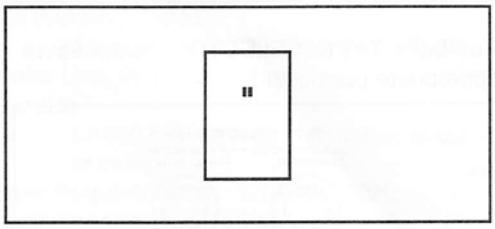


5 Adjust the REC LEVEL control so that the loudest sound to be recorded makes the meter indication just reach the 0 dB point.



Setting the recording level correctly is essential if you want to make top-quality recordings. If the level is too low, the recording will be noisy. If the level is set too high, the recording will be distorted. Generally speaking, the recording level should be set so that the loudest signals to be recorded make the meters indicate about 0 dB. If the meters peak over the 0 dB point, the REC LEVEL control should be turned counterclockwise a little. However, some program material or different tape formulations (i.e., metal tape) may warrant higher recording levels. With a little time and practice you will be able to select that critical recording level that gives you the best hi-fi recordings. The type and condition of the tape, as well as the type of music source you are recording will affect the optimum settings of the recording level.

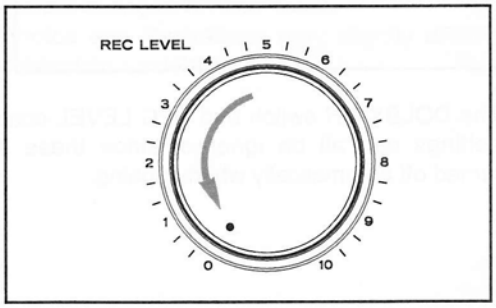
6 Press the pause button again to start recording.



- To stop recording, press the STOP button (■/⏏).

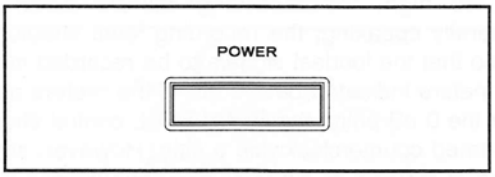
Erasing on REC/PLAY II

A previously recorded tape will be automatically erased when you make a new recording on it. Alternatively, it can be erased by "recording" on it with the REC LEVEL control set to "0".

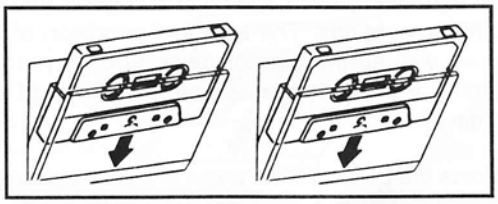


Dubbing (Copying PLAY I to REC/PLAY II)

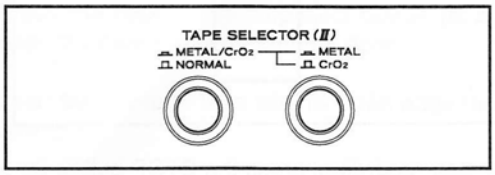
1 Press on the POWER switch.



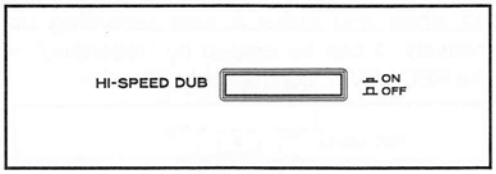
2 Load the pre-recorded cassette into PLAY I and a recordable cassette into REC/PLAY II.



3 Set both TAPE SELECTOR switches to the appropriate positions.

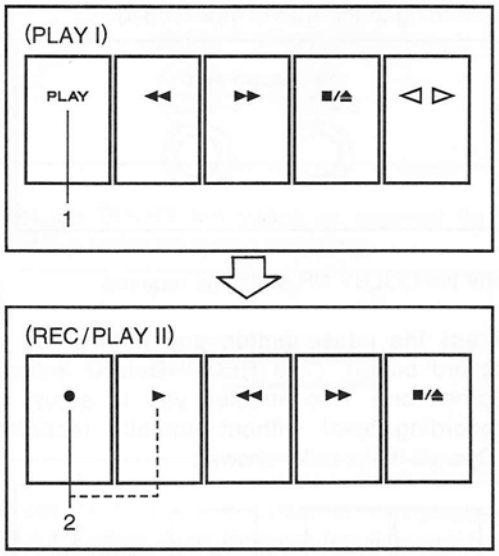


4 Press the HI-SPEED DUB button to the ON position when you want dubbing to be done at high speed (the HI-SPEED DUB indicator will light up once recording starts).

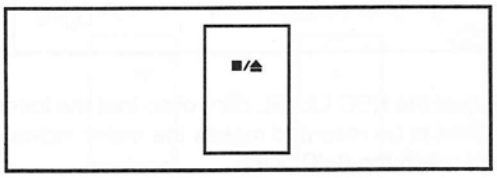


5 The DOLBY NR switch and REC LEVEL control settings can all be ignored, since these are turned off automatically when dubbing.

6 Press the PLAY button of PLAY I, then press the record button (●) of REC/PLAY II to start dubbing. The PEAK PROGRAM LEVEL METER indicates the signal level of the tape in PLAY I. If a signal is supplied to the LINE IN jacks, it will be interrupted automatically.



7 To stop dubbing, press the stop/eject button of REC/PLAY II, then press the stop/eject button of PLAY I.



Note:

- When playing back the copied tape, use the same type of noise reduction system.

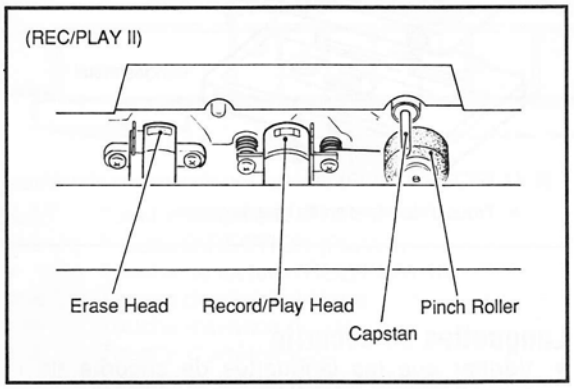
MAINTENANCE

The heads and tape path should be cleaned and demagnetized periodically.

Cleaning Tape Path

- Apply head cleaning fluid* to a cotton bud or soft cloth, and lightly rub the heads, capstan and all metal parts in the tape path.
- Also clean the pinch roller using rubber cleaning fluid*.

* Both are available in TEAC Tape Recorder Cleaning Kits HC-2 and RC-2 in the U.S.A. or TZ-261 in other areas.



Demagnetizing Heads

Be sure that the power is off, then demagnetize the heads using a TEAC E-3 demagnetizer. For details of its use, read its instructions.

Caution:

If the surface of the unit gets dirty, wipe with a soft cloth or use a diluted neutral cleaning liquid. Clean off thoroughly. Do not use thinner, benzine or alcohol as they may damage the surface of the unit.

SPECIFICATIONS

Track System: 4-Track 2-Channel Stereo
Heads: 3; PLAY I: Playback × 1
REC/PLAY II: Erase × 1,
Record/Playback × 1
Type of Tape:
Cassette tape C-60 and
C-90 (Philips type)
Tape Speed:
4.76cm/s (1-7/8 ips)
9.5cm/s (3-3/4 ips; in HI SPEED DUB)
Motor: 1 DC Servo Motor
Wow and Flutter: 0.09 %
Frequency Response (Overall, –20dB):
30-16,000Hz, Metal Tape
30-15,000Hz, CrO_2 Tape
30-14,000Hz, Normal Tape
Signal-to-Noise Ratio (Overall):
55 dB (NR off, 3% THD Level, Weighted)
65 dB (Dolby B NR on, at 5 kHz)
Fast Winding Time:
Approximately 120 seconds for C-60
Inputs: Line; 98mV, 50k ohms
Outputs:
Line; 0.58V for load impedance of 50k ohms or more
Power Requirements: 120V AC, 60Hz
Power Consumption: 10 W
Dimensions (W x H x D):
435 × 130 × 215 mm
(17-1/8" × 5-1/8" × 8-7/16")
Weight: 3.3 kg (7-1/4 lbs) net
Standard Accessories:
Input-Output connection cords

- Specifications were determined using metal tape except as noted.
- Improvements may result in specification or feature changes without notice.
- Photos and illustrations may slightly differ from production models.

For CANADA

AC POWER CORD CONNECTION

CAUTION:
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

CORDE DE CONNEXION CA

ATTENTION:
POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

TEAC CORPORATION	3-7-3, Nakacho, Musashino-shi, Tokyo 180, Japan Phone: (0422) 52-5081
TEAC AMERICA, INC.	7733 Telegraph Road, Montebello, California 90640 Phone: (213) 726-0303
TEAC CANADA LTD.	340 Brunel Road, Mississauga, Ontario L4Z 2C2, Canada Phone: 905-890-8008
TEAC UK LIMITED	5 Marlin House, Marlins Meadow, The Croxley Centre, Watford, Herts. WD1 8YA, U.K. Phone: 01923-819699
TEAC DEUTSCHLAND GmbH	Bahnstrasse 12, 65205 Wiesbaden-Erbenheim, Germany Phone: 0611-71580
TEAC FRANCE S.A.	17, Rue Alexis-de-Tocqueville, CE 005 92182 Antony Cedex, France Phone: (1) 42.37.01.02
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